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TRASH RAKE CLEANING SYSTEM



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INSTALLATION CONFIGURATION POSSIBILITIES

- Overhead structure
- Concrete deck
- Wall-mounted
- Interior/Exterior
- Fixed or rail-mounted



APPLICATIONS

- Power Generation
- Pulp and paper mills
- Municipal and industrial water intakes
- Wastewater treatment plants
- Waterparks



GENERAL TECHNICAL DATA

- Lifting capacity: 1.5 Tn
- Designed lifting capacity: 1.0 Tn
- Max. working radius: 10 m
- Slewing angle: 360°
- Automatic and manual operation



OPTIONAL EQUIPMENT

- Double and triple stage boom for different depths
- Belt or chain conveyor for removing debris
- Ice protection for moving elements
- Cabin for operator
- Small telescopic crane with gripper

HANDLES DIFFERENT TYPES OF DEBRIS

- Aquatic plants and grass
- Leaves
- Branches
- Logs and tree stumps
- Sediments and sand



POWER AND MOTION CONTROL

In combination with a range of products from the world's leading suppliers of pumps, motors and valves, SERVI offers quality components, complete turnkey solutions, service and maintenance.

ADVANTAGES OF OUR SYSTEM

- Handles all types of debris
- Has an enhanced lifting capacity
- All equipment is fixed in a stationary position on the trolley (an external power source is required via the power cable)
- Can accommodate different rake depths and lengths
- Operates in automatic and manual mode
- Long lifespan
- Custom designs available
- Operates on a 24/7 basis



TRASH RAKE CLEANING SYSTEM

The SMED Trash Rake cleaning system effectively removes debris from the protective rack in front of inlet openings and ensures an unobstructed flow of water to turbines, pumping stations or other vital components of a given facility.

SOLUTIONS FOR DEMANDING OPERATIONS

The cleaning machine is designed to fully comply with the trash rake's construction and geometry. Depending on the needs of our clients, the SMED Hydraulic Trash Rake cleaning machine may work in a manual, semi-automatic or fully-automatic mode. The cleaner head has been designed to grasp any type of debris. The lower edge of the head serves as a scraper that can dislodge debris from the rake.

STATIONARY SOLUTIONS

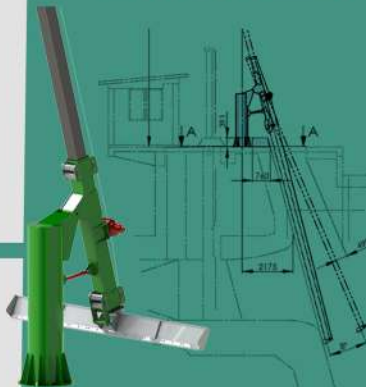
Stationary solutions are designed to provide automatic and continuous trash rack cleaning. The range of available products reflects solutions that are differentiated by the type of technology used, flow capacity and size. This makes it possible to meet almost any need.

Possible solutions:

- Telescopic arm; hydraulic or electro-mechanical drive units
- Double telescopic arm; hydraulic or electro-mechanical drive units

MAIN ADVANTAGES OF OUR SYSTEM

- Meets height clearance requirements
- Can handle different rake depths
- Operates in automatic and manual mode
- Hydraulic or electro-mechanical movements
- Long lifespan
- Custom designs available



SOLUTIONS FOR LOWER WATER INTAKE VOLUMES

The raking machine has a chain that is suitable for cleaning small and medium-sized screens, where the solid transport consists of leaves and light materials, shrubs or light-weight debris. The machine is operated electromechanically by means of a gearbox and relevant driving shaft. The rakes are assembled on the dragging side chains (1) or mounted together with supportive construction (2) and are suitable for continuous heavy use. Automated operation is made possible by means of differential level sensors (optional) which control upstream and downstream screening.

- Applications: Vary
- Width: up to 5 m
- Height: up to 10 m
- Slope: 60°
- Speed: ca. 0.25 m/s
- Rated Power: up to 3 kW
- Load Capacity: up to 300 kg

ADVANTAGES OF THE SMED DESIGN

- Continuous operation
- Simple construction
- Fully-automated systems
- Low investment
- Easy maintenance system



RECONSTRUCTION OF EXISTING INSTALLATIONS OR DEVICES

In order to improve the efficiency of existing installations or devices, we offer a range of additional applications, as well as reconstruction plans for main parts or even an entire structure - from conceptual designs to the final realization of a product.

UNIQUE CONCEPTS FOR DEBRIS REMOVAL

When standard solutions are not applicable, high-efficiency equipment must be brought into action. SMED will analyze a client's site and provide the best conceptual solutions to meet even the most demanding requirements. Our engineers have had extensive experience with all aspects of designing innovative equipment that can handle debris.

OUR PARTNER

SERVI has comprehensive knowledge and expertise within Power and Motion Control, focused on in-house design and production of valves, valve blocks, cylinders, accumulators and HPU's.

Our experienced engineers are here to explain how some improvements can help you reduce costs, increase productivity, ensure compliance with regulations and standards and, most importantly, let you concentrate on what's important - running your business!



SMED has also had considerable experience in designing safe, economical and environmentally sustainable equipment for this field.

ADDITIONAL FEATURES

- Special cleaning systems
- Special conveying equipment
- Cranes for specific purposes
- Special considerations for severe weather conditions
- Additional applications





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